



TRIBHUVAN UNIVERSITY
FACULTY OF HUMANITIES & SOCIAL SCIENCES

Office of the Dean
Kirtipur, Kathmandu

Ref. No.:.....

BCA, 2nd Semester, CAMT - 154 : Mathematics II Syllabus of :

Unit 2 : Differentiation

Introduction, Derivatives of algebraic, trigonometric, exponential and logarithmic functions by definition (simple forms), Rules of differentiation, Derivatives of parametric and implicit functions, Higher order derivatives, Relationship between continuity and differentiability. L'Hospital's rule (for $0/0$, ∞/∞), Differentials, Tangent and Normal, Geometric interpretation and application of Rolle's theorem and Mean value theorem,